

AMENDMENTS TO THE DRAWINGS

Applicants respectfully submits a replacement drawing sheet for Figs. 7, 9, 11 and 13.

The Examiner is requested to approve the replacement drawing sheet submitted herewith.

Attachment: Four (4) Replacement Sheets (Figs. 7, 9, 11 and 13)

REMARKS

Claims 1-13 are all the claims pending in the application. Claims 1 and 5-13 are rejected. Claims 1, 5-8, 10, 12 and 13 are amended. New claim 14 is added. Claims 2-4, which were withdrawn from consideration, along with claim 8, which is incorporated into claim 1, are cancelled.

Drawings

The Examiner has objected to the drawing figures for failing to comply with 37 C.F.R. § 1.84(p)(5) because the following reference characters are not mentioned in the description: 17 (Fig. 9), and 41, 42, and 44 (Figs. 9, 11 and 13).

In response to this objection, Applicants have removed reference numbers 17, 41, 42 and 44 from the Figures Figs. 9, 11 and 13.

Also, the drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because: reference character "49" has been used to designate both movable vacuum cleaner (page 5, 2nd paragraph, page 6, line 7) and movable cleaning head (page 5, 2nd paragraph, page 6, line 7); and reference character "30" has been used to designate both round contacting sockets (page 5, line 3) and contacting needles (page 5, 2nd paragraph);

Applicant submits that "the movable vacuum cleaner" (49) should read "movable cleaning head (39)" and "moveable cleaning head (49) should read "moveable cleaning head (39)" and has amended the specification accordingly.

Applicant has amended paragraph 1, lines 6-7 on page 5 so that "contacting pins (30)" reads "contacting pins (38)."

Lastly, the Examiner has objected to Fig. 7 that shows "15" on the same side as "19", however in Fig. 2, they are shown on opposite sides. Applicant submits that "15" should read "5" and has amended the Figure accordingly.

Specification

The Examiner has objected to the disclosure for various reasons and Applicant has amended the specification in order to remove the Examiner's objections. No new matter is added.

Claim Rejections - 35 U.S.C. § 112

Claims 1 and 5-13 have been rejected under 35 U.S.C. § 112, second paragraph, as being incomplete. This rejection is traversed for at least the following reasons.

The Examiner asserts that the claims omit essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections.

Applicant has amended claims 1, 5-7, 10, and 12-13 and added new claim 14 so that the above Examiner's rejection is overcome.

Claims 1 and 3-13 have been rejected under 35 U.S.C. § 112, second paragraph, as being indefinite. This rejection is traversed for at least the following reasons.

The Examiner asserts that the claims fail to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Applicants believe the proposed amended claims 1, 5-7, 10, and 12-13 and new claim 14 should overcome this rejection for failing to particularly pointing out and distinctly claiming the subject matter of the Applicant's invention.

Claim 8 has been rejected under 35 U.S.C. § 112 second paragraph as being unclear. This rejection is traversed for at least the following reasons.

The Examiner asserts that it is unclear whether the mirror is in addition to that in claim 1. Also, the Examiner questions the meaning of the mirror "radiating extreme ultraviolet rays."

As explained at page 5 of the specification, there is a transmitting **mirror** (33) made of transparent materials under the extreme ultraviolet ray transmitting tube (31) so that the extreme ultraviolet ray can transmit into the garbage box body (20). Also, as explained at page 6, A transmitting **mirror** made of transparent material is provided under the extreme ultraviolet ray

transmitting tube (32) so that the extreme ultraviolet ray can irradiate on the floor or to outside and inside of the carpet.

Applicant is referring to the cover of the ultraviolet ray tubes. Therefore, Applicant has amended claim 8 in a manner that inserts the words “that is used as a cover for the ultraviolet transmitting tube and is made of an ultraviolet transmitting material and permits rays to enter a garbage box or to exit to a carpet or floor.”

Claims Rejections - 35 U.S.C. § 103

Claims 1, 5-6, and 9-10 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Thomas et al. (U.S. Patent No.: 6,108,864, herein after “Thomas”) in view of Hung (U.S. Patent No.: 5,233,723).

Claim 11 has been rejected under 35 U.S.C. § 103(a) as being unpatentable over Thomas in view of Hung as applied to claim 1 above, and further in view of McDowell (U.S. Patent No.: 4,766,638).

Claim 7 has been rejected under 35 U.S.C. §. 103(a) as being unpatentable over Thomas in view of Hung as applied to claim 1 above, and further in view of Oh et al. (U.S. Patent No.: 6,468,545, hereinafter “Oh”).

Claims 12-13 have been rejected under 35 U.S.C. §. 103(a) as being unpatentable over Thomas in view of Hung as applied to claim 1 above, and further in view of Oh and Cuddeback (U.S. Patent No.: 2,637,912).

Analysis of the Prior Art Rejections

The present Invention

This invention relates to an innovative, advanced and environment favorable handheld optoelectronic dust collecting machine for killing bacteria and viruses. This handheld optoelectronic dust collecting machine for killing bacteria and viruses can use extreme ultraviolet rays operating at a wavelength of 253.7 nanometer to eliminate viruses and bacteria on floor and in carpet, furniture and automobile compartment and to draw sundries such as garbage into the garbage box of the dust collecting machine, in which a separate extreme ultraviolet ray transmitting tube is provided for eliminating viruses and bacteria of garbage and sundries in the

garbage box for long time so as to avoid breeding of new viruses and bacteria. The extreme ultraviolet ray transmitting tube has a separate transparent transmitting mirror protection that is used as a cover for the ultraviolet transmitting tube and is made of an ultraviolet transmitting material and permits rays to enter said garbage box body and a penetrable transmitting mirror radiating extreme ultraviolet rays to exit to a carpet or floor.

The foregoing feature is represented in original claim 8, which now has been cancelled, and the recited limitations added to amended claim 1. As claim 8 has not been rejected on the basis of prior art, this added material should make claim 1 allowable.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

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